

Harford County - Public Works-Engineering
Southampton Rd Bridge 47 Replacement
Cost Analysis Report

Project Number: 09-164
Contract No: SHA HA118ZM2

Bid Date:	02/18/2009	1:00 PM	Vendor:	American Infrastructure
Engineer:	Julio Espinoza		PO Box 278	Fallston, MD 20002-1047

Item	Item Code	Description	Quantity	UM	Est. Unit Price	Actual Unit Price	Est. Total	Actual Total
1001	110100	Clearing And Grubbing	1.0000	LS	26,425.0000	30,000.0000	26,425.00	30,000.00
1002	110350	Type B Engineers Office	1.0000	LS	31,710.0000	20,000.0000	31,710.00	20,000.00
1003	120500	Maintenance Of Traffic	1.0000	LS	36,995.0000	4,890.0000	36,995.00	4,890.00
1004	130840	Construction Stakeout	1.0000	LS	31,710.0000	16,600.0000	31,710.00	16,600.00
1005	130850	Mobilization	1.0000	LS	211,400.0000	189,366.0000	211,400.00	189,366.00
1006	120626	Temp Traffic Signs Type III Reflective Sheeting For MOT	1,400.0000	SQFT	19.0300	16.0000	26,642.00	22,400.00
1007	120744	Type III Barricade For MOT	10.0000	EA	422.8000	230.0000	4,228.00	2,300.00
1008	120820	Drums For MOT	35.0000	EA	84.5600	83.0000	2,959.60	2,905.00
1009	121148	Temp 32" F Shape Concrete Traffic Barrier	240.0000	LF	52.8500	15.5000	12,684.00	3,720.00
1010	120552	Contingent Crusher Run Aggregate CR-6 For MOT	100.0000	TN	31.7100	12.0000	3,171.00	1,200.00
1011	120561	Contingent Hot Mix Asphalt For MOT	60.0000	TN	84.5600	19.0000	5,073.60	2,910.00
1012	114280	Removal Of Existing Pavement Line Markings-Any Width For MOT	1,600.0000	LF	1.0600	1.8500	1,696.00	2,960.00
1013	114205	4" Yellow Removable Preformed Pavement Line Markings For MOT	1,000.0000	LF	1.5900	2.6000	1,590.00	2,600.00
1014	114206	Removal Of 4" Removable Preformed Pavement Markings For MOT	1,000.0000	LF	0.2600	1.3000	260.00	1,300.00
1015	120610	Contingent Arrow Panel For MOT	10.0000	UD	52.8500	23.0000	528.50	230.00
1016	120860	Contingent Portable Variable Message Sign For MOT	10.0000	UD	158.5500	131.0000	1,585.50	1,310.00
2001	201031	Contingent Class 1-A Excavation	1,000.0000	CY	26.4300	5.0000	26,430.00	5,000.00
2002	201030	Class 1 Excavation	4,800.0000	CY	26.4300	10.0000	126,864.00	48,000.00
2003	202065	Common Borrow	11,700.0000	CY	21.1400	8.7500	247,338.00	102,375.00
2004	202050	Contingent Select Borrow	1,000.0000	CY	42.2800	5.0000	42,280.00	5,000.00
2005	203030	Contingent Test Pit Excavation	20.0000	CY	126.8400	112.0000	2,536.80	2,240.00
2006	210030	Removal Of Existing Masonry	3.0000	CY	211.4000	683.0000	634.20	2,049.00
2007	210025	Removal Of Existing Pavement	110.0000	SQYD	42.2800	21.0000	4,650.80	2,310.00
2008	201040	Contingent Geosynthetic Stabilized Subgrade Using GAB	150.0000	CY	42.2800	37.0000	6,342.00	5,550.00
3001	301006	Stabilized Construction Entrance	80.0000	TN	31.7100	50.0000	2,536.80	4,000.00
3002	301007	Contingent Rehabilitate Stabilized Construction Entrance	40.0000	TN	31.7100	50.0000	1,268.40	2,000.00
3003	301010	Contingent Class 3 Excavation For Incidental Construction	100.0000	CY	37.0000	25.0000	3,700.00	2,500.00
3004	301120	Contingent Select Backfill Using Crusher Run Aggregate CR-6	100.0000	CY	42.2800	23.0000	4,228.00	2,300.00
3005	301110	Contingent Selected Backfill Using AASHTO 57 Aggregate	100.0000	CY	42.2800	22.0000	4,228.00	2,200.00
3006	301112	Contingent Flowable Backfill For Abandoned Pipe Culverts	6.0000	CY	184.9800	78.0000	1,109.88	468.00
3007	302418	18" RCCP-Class IV	515.0000	LF	63.4200	46.0000	32,661.30	23,690.00
3008	368818	18" Standard Concrete End Section	3.0000	EA	792.7500	660.0000	2,378.25	1,980.00
3009	379126	Std Type S Combo Inlet Double Grate Tandem Minimum Depth	3.0000	EA	2,642.5000	3,260.0000	7,927.50	9,780.00
3010	378164	Std Single Opening Type K Inlet Open End Grate Minimum Depth	1.0000	EA	2,642.5000	2,050.0000	2,642.50	2,050.00
3011	378167	Std Double Opening Type K Inlet Open End Grate Minimum Depth	2.0000	EA	2,642.5000	2,050.0000	5,285.00	4,100.00
3012	380600	48" Precast Diameter Manhole For 18" Pipes Minimum Depth	2.0000	EA	3,171.0000	1,930.0000	6,342.00	3,860.00
3013	380605	48" Precast Diameter Manhole For 18" Pipes Vertical Depth	4.0000	LF	211.4000	74.0000	845.60	296.00
3014	388066	Median Inlet Protection	5.0000	EA	264.2500	157.0000	1,321.25	785.00
3015	390221	Class I Riprap Ditch	100.0000	SQYD	52.8500	53.0000	5,285.00	5,300.00

Run By: Charlie Isennock



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EXHIBIT

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3016	391001	Bottom Cutoff Walls For Class III Riprap Ditch	10,000.00	LF	26.4300	40.0000	264.30	400.00
3017	390222	Class II Riprap Ditch	20,000.00	SQYD	79.2800	56.0000	1,585.60	1,120.00
3018	391002	Bottom Cutoff Walls For Class II Riprap Ditch	10,000.00	LF	47.5700	40.0000	475.70	400.00
3019	390529	Gravel Filter Diaphragm	50,000.00	TN	79.2800	40.0000	3,964.00	2,000.00
3020	301005	Temporary Stone Outlet Structure	1,000.00	TN	52.8500	141.0000	52.85	141.00
3021	390525	Silt Fence	650,000.00	LF	3.1700	2.0000	2,060.50	1,300.00
3022	390535	Super Silt Fence	2,500,000.00	LF	9.5100	7.0000	23,775.00	17,500.00
3023	388052	Water Quality Check Dam	7,000.00	TN	52.8500	85.0000	369.95	595.00
3024	388060	Stone Check Dam	3,000.00	TN	52.8500	85.0000	158.65	255.00
3025	301211	Removal Of Existing Pipe Any Size To 24" Diameter	75,000.00	LF	31.7100	43.0000	2,378.25	3,225.00
3026	387106	Contingent 6" Longitudinal Underdrain	500,000.00	LF	31.7100	9.0000	15,855.00	4,500.00
3027	387109	Contingent 6" Longitudinal Underdrain Outlets	50,000.00	LF	8.4600	24.1000	423.00	1,205.00
3028	301311	Contingent Mix #2 Concrete Misc Structures	2,000.00	CY	528.5000	1,200.0000	1,057.00	2,400.00
3029	301312	Contingent Brick Masonry For Misc Structures	2,000.00	CY	634.2000	1,090.0000	1,268.40	2,180.00
4001	410005	Maintenance Of Stream Flow For Relocated Bridge	1,000.00	LS	42,280.0000	39,300.0000	42,280.00	39,300.00
4002	417105	Class 3 Excavation For Relocated Bridge	520,000.00	CY	47.5700	43.0000	24,736.40	22,360.00
4003	421124	Steel Bearing Piles Thru Overburden For Relocated Bridge	780,000.00	LF	126.8400	50.0000	98,935.20	39,000.00
4004	421123	Setup For Steel Bearing Pile For Relocated Bridge	49,000.00	EA	1,268.4000	2,700.0000	62,151.60	132,300.00
4005	421122	Steel Bearing Pile In Coreable Material For Relocated Bridge	245,000.00	LF	422.8000	47.0000	103,586.00	11,515.00
4006	428105	Footing Concrete For Relocated Bridge	200,000.00	CY	475.6500	357.0000	95,130.00	71,400.00
4007	431104	Substructure Concrete For Relocated Bridge	1,000.00	LS	157,493.0000	193,000.0000	157,493.00	193,000.00
4008	433090	Prestressed Concrete Beams For Relocated Bridge	1,000.00	LS	280,105.0000	198,000.0000	280,105.00	198,000.00
4009	433155	Superstructure Concrete For Relocated Bridge	1,000.00	LS	211,400.0000	183,000.0000	211,400.00	183,000.00
4010	472145	Traffic Barrier W Beam For Relocated Bridge	130,000.00	LF	211.4000	128.0000	27,482.00	16,640.00
4011	472140	Traffic Barrier W-Beam W/Handrail For Relocated Bridge	130,000.00	LF	317.1000	207.0000	41,223.00	26,910.00
4012	492036	Class III Riprap For Scour Protection For Relocated Bridge	340,000.00	TN	84.5600	47.0000	28,750.40	15,980.00
4013	410109	Removal Of Portions Of Existing Bridge	1,000.00	LS	31,710.0000	15,400.0000	31,710.00	15,400.00
4014	410005	Maintenance Of Stream Flow For Existing Bridge	1,000.00	LS	26,425.0000	16,900.0000	26,425.00	16,900.00
4015	417105	Class 3 Excavation For Existing Bridge	20,000.00	CY	47.5700	41.0000	951.40	820.00
4016	431105	Substructure Concrete For Existing Bridge	40,000.00	CY	898.4500	962.0000	35,938.00	38,480.00
4017	433090	Prestressed Concrete Beams For Existing Bridge	1,000.00	LS	78,218.0000	51,000.0000	78,218.00	51,000.00
4018	433150	Superstructure Concrete For Existing Bridge	1,000.00	LS	42,280.0000	85,000.0000	42,280.00	85,000.00
4019	472145	W-Beam Traffic Barrier For Existing Bridge	125,000.00	LF	211.4000	139.0000	26,425.00	17,375.00
4020	492035	Class II Riprap For Scour Protection For Existing Bridge	197,000.00	TN	84.5600	48.0000	16,658.32	9,456.00
4021	445103	Segmental Block Wall	1,000.00	LS	42,280.0000	26,100.0000	42,280.00	26,100.00
4022	424105	Contingent Subfoundation Concrete For Bridge	20,000.00	CY	317.1000	173.0000	6,342.00	3,460.00
5001	520114	8" Graded Aggregate Base Course Using GAB (2-4" Layers)	6,600,000.00	SQYD	12.6800	9.2000	83,688.00	60,720.00
5002	520152	Contingent Calcium Chloride/Magnesium Chloride-Base Course	4,000.00	TN	422.8000	801.0000	1,691.20	3,204.00
5003	520112	5" Graded Aggregate Base For Curb And Gutter	500,000.00	SQYD	6.3400	9.2000	3,170.00	4,600.00



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5004	520109	3" Graded Aggregate Base Course For Sidewalk	1,150.0000	SQYD	5.2900	8.0000	6,083.50	9,200.00
5005	599201	Milling Hot Mix Asphalt Pavement 0" To 2"	1,500.0000	SQYD	10.5700	3.1500	15,855.00	4,725.00
5006	504206	HMA Superpave 12.5 MM Surface PG64-22 Level-2	900.0000	TN	68.7100	62.0000	61,839.00	55,800.00
5007	504298	HMA Superpave 19 MM Base PG64-22 Level 2	1,300.0000	TN	63.4200	53.0000	82,446.00	68,900.00
5008	504207	HMA Superpave 12.5 MM Wedge Level PG 64-22 Level 2	200.0000	TN	73.9900	68.0000	14,798.00	13,600.00
5009	561120	9" Integrally Colored Imprinted Concrete Pavement	450.0000	SQYD	79.2800	96.0000	35,676.00	43,200.00
6001	634512	Standard 7" Combination Curb And Gutter	1,750.0000	LF	16.9100	18.0000	29,592.50	31,500.00
6002	634340	Standard Type C Combination Curb And Gutter	520.0000	LF	21.1400	17.5000	10,992.80	9,100.00
6003	655104	4" Concrete Sidewalk	10,500.0000	SQFT	5.2900	3.9000	55,545.00	40,950.00
6004	660652	Traffic Barrier W-Beam Barricade	25.0000	LF	42.2800	58.0000	1,057.00	1,450.00
6005	660652	Traffic Barrier W-Beam	150.0000	LF	21.1400	36.0000	3,171.00	5,400.00
6006	661510	Type C Traffic Barrier End Treatment	5.0000	EA	2,114.0000	2,610.0000	10,570.00	13,050.00
6007	661501	Type A End Anchorage	1.0000	EA	1,057.0000	940.0000	1,057.00	940.00
6008	661540	Type K Traffic Barrier End Treatment	2.0000	EA	1,057.0000	783.0000	2,114.00	1,566.00
7001	701325	Placing Salvaged Topsoil 2" Depth	2,300.0000	SQYD	4.2300	0.5000	9,729.00	1,150.00
7002	704325	Placing Furnished Topsoil - 2" Depth	9,100.0000	SQYD	6.3400	1.0000	57,694.00	9,100.00
7003	704370	Placing Furnished Topsoil 12" Depth	220.0000	SQYD	15.8600	4.0000	3,489.20	880.00
7004	705400	Temporary Seeding	130.0000	LBS	15.8600	8.0000	2,061.80	1,040.00
7005	707355	Permanent Seeding	10,500.0000	SQYD	1.0600	0.3000	11,130.00	3,150.00
7006	707355	Contingent Overseeding Permanent Seeding Areas	50.0000	LBS	8.4600	15.0000	423.00	750.00
7007	705560	Contingent Refertilizing	280.0000	LBS	1.0600	5.0000	295.80	1,400.00
7008	708240	Type A Soil Stabilization Matting	1,400.0000	SQYD	3.1700	2.4000	4,438.00	3,360.00
7009	722360	Carya Ovalia (Shagbark Hickory) 2" Cal. B&B	9.0000	EA	237.8300	0.0000	2,140.47	0.00
7010	725430	Quercus Rubra (Red Oak) 2" Cal. B&B	9.0000	EA	237.8300	183.0000	2,140.47	1,647.00
7011	722460	X Cupressocyparis Leylandii (Leyland Cypress) 2" Cal. B&B	6.0000	EA	237.8300	157.0000	1,426.98	942.00
7012	743279	Pinus Strobus (White Pine) 2" Cal. B&B	6.0000	EA	237.8300	104.0000	1,426.98	624.00
7013	722509	Fraxinus Pennsylvanica (Green Ash) 1" Cal. B&B	9.0000	EA	84.5600	63.0000	761.04	567.00
7014	750929	Cercis Canadensis (Eastern Redbud) 1" Cal. B&B	9.0000	EA	84.5600	63.0000	761.04	567.00
7015	780029	Carpinus Caroliniana (American Hornbeam) 1" Cal. B&B	9.0000	EA	84.5600	63.0000	761.04	567.00
7016	764531	Viburnum Dentatum Arrowwood) 30" Height	21.0000	EA	31.7100	23.0000	665.91	483.00
7017	764039	Viburnum Acerifolium (Mapleleaf Viburnum) 30" Height	21.0000	EA	31.7100	23.0000	665.91	483.00
8001	811700	Water Main Replacement	1.0000	LS	105,700.0000	73,900.0000	105,700.00	73,900.00
8002	812533	Sewer Main Relocation	1.0000	LS	211,400.0000	66,700.0000	211,400.00	66,700.00
8003	805117	4" PVC Electrical Conduit And Fittings	300.0000	LF	26.4300	11.0000	7,929.00	3,300.00
SubTotal - Bid Related Costs							3,316,068.54	2,331,686.00
Bid Percent Above Estimate				0.00 %	Overall Totals:		3,316,068.54	2,331,686.00

